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(54) Lens driving apparatus for disk player

(57) In the lens driving apparatus of a disk player, a pair of magnets 20 for generating magnetic fields are fixed to a pair of yokes 21, respectively to generate a magnetic gap therebetween. The pair of yokes 21 are oppositely arranged on and fixed to a plate-like actuator base 10 by plural screws 12 through a fixing member

11. A movable portion 50 is movably hung by four supporting wires 32(or plate screws) on a supporting base 31 that is fixed to the actuator base 10. The movable portion 51 is arranged within the above magnetic gap. In such a configuration, the apparatus for a disk player can shift a natural resonance frequency to a high frequency and can be operated at a high speed.

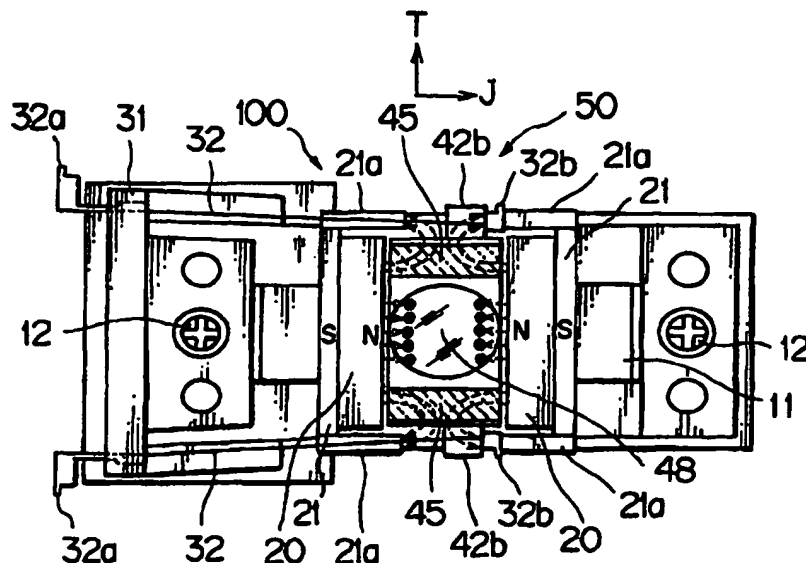


FIG. 1A

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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 4 842 392 A (NAKAMURA HIROYUKI ET AL) 27 June 1989 (1989-06-27)	1,2,5,6	G11B7/09
A	* column 2, line 56 - column 3, line 24; figure 1 * * abstract *	3,4	

A	US 5 488 603 A (TOMITA HIRONORI ET AL) 30 January 1996 (1996-01-30)	1,3,5	
	* column 8, line 28 - column 9, line 4; figure 1 *		

The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 14 March 2003	Examiner Lehnberg, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons A : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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14-03-2003

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